

**PATENT**

**GLASS YARNS SUITABLE FOR REINFORCING ORGANIC AND/OR  
INORGANIC MATERIALS, COMPOSITES CONTAINING THEM AND  
COMPOSITION USED**

**Filed by:** SAINT-GOBAIN VETROTEX FRANCE S.A.

**Inventors:** Emmanuel LECOMTE  
Sophie CREUX

**ABSTRACT**

The invention relates to glass reinforcing yarns, the composition of which comprises the following constituents, within the limits defined below, expressed in percentages by weight:

SiO <sub>2</sub>	50 - 65%
Al <sub>2</sub> O <sub>3</sub>	12 - 20%
CaO	13 - 16%
MgO	6 - 12%
B <sub>2</sub> O <sub>3</sub>	0 - 3%
TiO <sub>2</sub>	0 - 3%
Na <sub>2</sub> O + K <sub>2</sub> O	< 2%
F <sub>2</sub>	0 - 1%
Fe <sub>2</sub> O <sub>3</sub>	< 1.

These yarns are made of a glass offering an excellent compromise between its mechanical properties represented by the specific Young's modulus and its melting and fiberizing conditions.